

LXIX. *A Catalogue of the FIFTY PLANTS from Chelsea-Garden, presented to the Royal Society by the worshipful Company of Apothecaries, for the Year 1753. pursuant to the Direction of Sir Hans Sloane, Bart. Med. Reg. & Soc. Reg. nuper Præs.; by John Wilmer, M. D. Clariss. Societatis Pharmaceut. Lond. Soc. Hort. Chels. Præs. & Prælect. Botan.*

Read March 7, 1754. 1551. **A** Nagallis cærulea foliis binis ternisve ex adverso nascentibus *C. B.*

1552. *Arctotis* foliis ovatis dentatis petiolis longissimis superne dentatis caule ramofo *Flor. Leyd. Prod. Anemonospermos Africana foliis Plantaginis flore sulphureo Com. rar. Pl. fig. 35.*

1553. *Astragalus* caulescens procumbens leguminibus scrotiformibus inflatis mucronatis pilosis *Hort. Upsal.*

1554. *Atriplex* sylvestris fructu roseo compresso vel stellato *C. B. P.*

1555. *Baccharis* foliis lanceolatis longitudinaliter dentato ferratis *Hort. Cliff. Senecio Afric. arborefcens folio ferrato Boerb. 117.*

1556. *Calendula* foliis linearibus denticulatis & integerrimis *Flor. Leyd. Dimorphotheca statites folio Vaillant.*

1557.

1557. *Carduus Lusitanicus* luteus foliis coronopi glabris & rigidis *Tourn. Inst. R. H.*
1558. *Celtis* fructu obscure purpurascente *Inst. R. H.* 612.
1559. *Centaurea calycibus* duplicato-spinosis subrotundis, foliis decurrentibus, lanceolatis sinuosis inermibus floribus lateralibus *Hort. Cliff.*
1560. *Centaurea calycibus* subulato-spinosis foliis decurrentibus, inermibus lanceolatis inferioribus dentatis *H. Cliff.*
1561. *Centaurea calycibus* ciliatis, foliis tomentosis pinnatifidis, foliolis ovatis integerrimis exterioribus majoribus *Hort. Cliff.* Jacea Epidaurica candidissima & tomentosa *Tourn.* 445.
1562. *Cerinthe Alpina* perennis flore striato *Tourn. Inst. R. H.* *Glastrum montanum Dalechampii* *Lugd.* 1204.
1563. *Clinopodium montanum* C. B. P. *Acinos Austriaca* *Clusii.*
1564. *Cynanchum* caule volubili, fol. reniformibus cordatis acutis *Hort. Cliff.* *Periploca Monspeliaca* folio rotundiore *Tourn.* 93.
1565. *Delphinium nectariis* diphyllis labellis bifidis apice barbatis, foliis incis, caule erecto *H. Upsal.* *Delphinium Orientale*, *Aconiti* fol. fl. cærul *T. Cor.* 30.
1566. *Diosma* foliis subulatis acutis *Hort. Cliff.* *Spiræa Africana* foliis cruciatim positis *Com. rar. pl.*
1567. *Echinopus minor* *J. B.* 3. 72.

1568. *Elichrysum sylvestre latifolium*, fl. parvo singulari stœchadi citrini alteri inodore Lobelii *Tourn. Inst. R. H.* Affinis capitulis brevioribus *J. B. 3. 157.*
1569. *Epilobium foliis lineari-lanceolatis integerrimis*, floribus corymbosis terminatricibus.
1570. *Eryngium Americanum foetidum* Ituba Brasil. *Hort. Leyd. 237.*
1571. *Galenia Hort. Cliff.* *Sherardia Pontider.*
1572. *Genista tinctoria latifolia* Lucensis *J. B.*
1573. *Hesperis ficula frutescens siliqua tricuspidi* *Tourn.* *Leucoium minus fruticans purpureum*, montanum crucigerum *Boc. p. 2. 148. T. 3.*
1574. *Hieracium incanum lanuginosum Ragulinum*, pilosellæ flore *Hort. Lugd. App.*
1575. *Hippocrepis leguminibus solitariis subseffilibus* *Hort. Cliff.* *Ferrum equinum siliqua singulari* *Tourn. 400.*
1576. *Hyoseris foliis glabris hastato-pinnatis* *Flor. Leyd. Prod.* *Dens leonis minor foliis radiatis* *C. B. P.*
1577. *Kempferia Hort. Cliff.* *Aroorchis tuberoso platyphyllos* *Breyn.*
1578. *Leonuros Canadensis origani folio* *Tourn. Inst. R. H. 187.* *Origanum fistulosum Canadense Cornuti.* *Monarda Hort. Cliff.*
1579. *Malope foliis ovatis crenatis glabris* *Hort. Cliff.* *Malacoides betonica folio* *Tourn. Inst. 98.*
1580. *Marrubiastrum vulgare* *Tourn.* *Sideritis al-fines trislaginis fol* *C. B. P. 233.*

1581. *Mercurialis* caule fruticoso, foliis tomentosis
Hort. Cliff.
1582. *Nerium Indicum angustifolium*, floribus odoratis simplicibus *Hort. Leyd.*
1583. *Othonna* foliis infimis lanceolatis integerrimis, superioribus sinuato-dentatis *Hort. Cliff.*
Jacobæa Africana frutescens coronopi folio
Com. Hort. Amst. p. 2. 139.
1584. *Papaver* caule unifloro nudo hispido, foliis pinnato-sinuatis *Hort. Ups.*
1585. *Perficaria* frutescens maculosa Virginiana flore albo *Park. Theat.* 857.
1586. *Physalis* radice perenne foliis cordatis obtusis
H. Cliff. *Alkekengi Bonariense* repens bacca turbinata viscosa *Hort. Eltham.* p. 11.
1587. *Plumbago* foliis petiolatis *Hort. Cliff.* *Ceylanensis* fol. splendente *Ocymastri* fl. lacteo
Burman Zeyl. 195.
1588. *Salvia* foliis ovatis utrimque acuminatis serratis *H. Cliff.* *Sclarea Mexicana* altissima
facie *Heliotropii* *Hort. Elt.* 339.
1589. *Sanicula* *Offic. C. B. P.* 319. *Mas Fuchsi*
sive *Diapensia* *J. B.* 3. 639.
1590. *Saxifraga Alpina* *Ericoides* flore cæruleo
Tourn. Inst. R. H. *Sedum Alpinum* *Ericoides* cæruleum *C. B. Prod.* 132.
1591. *Scabiosa* corollulis quinquefidis foliis incisfis, caule frutescente *Hort. Cliff.* *Scabiosa Africana* frutescens *Herman. Par.* 219.
1592. *Seseli* petiolis ramiferis membranaceis oblongis integris *Hort. Cliff.* *Faniculum sylvestre* elatius *Ferulæ*, fol. longiori *Tourn.* 311.

1593. *Solanum Campechianum* calycibus echinatis
H. Elt. 360.
1594. *Soldanella Hort. Cliff.* *Alpina rotundifolia*
C. B. P. 295.
1595. *Sonchus floribus folitariis, foliorum laciniis extrorsum flexis Hort. Cliff.* *Sonchus Tintiganus papaveris folio T.* 475.
1596. *Teucrium foliis lanceolatis integerrimis petiolatis, spicis laxis subrotundis Hort. Cliff.*
Polium lavendulæ folio C. B. P. 220.
1597. *Thevetia Hort. Cliff.* *Ahovas major Pis.*
1598. *Tordylium umbellulis remotis, foliis pinnatis pinnis subrotundis laciniatis Hort. Cliff.*
1599. *Veronica spicata lanuginosa & incana floribus cæruleis Amman. Ruth.*
1600. *Zigophyllum foliis subseffilibus Hort. Cliff.*
Fabago Africana arborescens flore sulphureo, fructu rotundo Com. Rar. 10.

LXX. *An Account of some Experiments upon a Machine for measuring the Way of a Ship at Sea. By Mr. J. Smeaton, F. R. S.*

Read April 4, 1754. **I**N the *Philosophical Transactions*, N^o 391. for November 1725. Mr. Henry de Saumarez gives an account of a machine for measuring a ship's way more exactly than by the log. This machine consists of a first mover, in the form of the letter Y. Upon the two arms of the Y are fastened two vanes, inclined in such a manner, that when the